

IN THE CLAIMS

Please amend the claims as indicated:

1. (Currently Amended) A process for achieving decór on a surface, the surface having desired dimensions and comprising a plurality of surface elements, the surface elements comprising a decorative upper layer, a supporting core, and edges comprising at least one of a tongue and groove, the process comprising:

- i) selecting a main decor via a terminal, the selected main decor emanating from a group consisting of an archetype digitised via digital camera or scanner and a digitised decor from a database;
- ii) calculating an intermediate distance, wherein the intermediate distance corresponds to a distance needed to form at least one of the tongue and groove on the surface elements; and entering dimensions of the surface to be covered by surface elements and the desired dimension of the decór into the terminal and using support programs for calculating a segmentation of the decór to cover more than one surface element, whereby at least one surface element is provided with the intermediate distance,
- iii) displaying a [[the]] result of the selections and calculations via the terminal; and,
- iv) forming at least one of a tongue and a groove on an edge of at least one surface element.

2. (Previously Presented) A process according to claim 1, wherein the digitized main decór is stored digitally in order to be used as a control function and original, together with control programs and selection parameters, when printing the decór.

3. (Previously Presented) A process according to claim 1, further comprising selecting a surrounding decór.

4. (Previously Presented) A process according to claim 3, further comprising:

v) selecting a decór effect in a border between the main decór and the surrounding decór, the selection being made from the group consisting of fading, sharp edge, sharp edge with shadow effect, jagged edge, jagged edge with shadow and surrounding inlay of other decór.

5. (Previously Presented) A process according to claim 3, wherein

i) a segmentation pattern for the surrounding decór is selected, the segmentation comprising at least two decór segments on each surface element, wherein the shape, as seen from above, of the surface element is selected from the group; triangular, quadratic, rectangular, heptagonal, pentagonal and octagonal while the shape of the segments is selected from the group triangular, quadratic, rectangular, heptagonal, pentagonal, octagonal, circular, elliptical, perturbed and irregular and that,

ii) a segment decór is selected for each segment, wherein the segment decór is selected from the group; digitized and simulated depiction of different kinds of wood, minerals and stone, different kinds of fabric, art work and fantasy based decór and that,

iii) each selection is made on a terminal where the selections emanates from a data base and that the selection is visualised via the terminal.

6. (Previously Presented) A process according to claim 2, further comprising selecting a surrounding decór wherein a decór effect in the border between the main decór and the surrounding decór is selected, the selection being made from the group; fading, sharp edge, sharp edge with shadow effect, jagged edge, jagged edge with shadow and surrounding inlay of other decór.

7. (Previously Presented) A process according to claim 1, further comprising:

v) entering the dimensions of the surface to be covered by surface elements into the terminal and calculating an installation pattern.

8. (Previously Presented) A process according to claim 7, wherein the installation pattern calculation is used for printing an assembly instruction.

9. (Currently Amended) A process according to claim 7, further comprising:  
vi) using the installation pattern calculation for printing a miniaturised copy of the calculated installation with the ~~selected~~ pattern and decór.
10. (Previously Presented) A process according to claim 3, wherein the dimensions of the surface to be covered by surface elements are entered into the terminal and support programs further calculate decór and segmentation pattern matching between the surface elements.
11. (Previously Presented) A process according to claim 1, wherein the selections are used, together with support programs for controlling further steps in the manufacturing procedure selected from the group; identification marking, positioning marking, packaging, lacquering, surface embossing, storing and delivery logistics.
12. (Previously Presented) A process according to claim 3, wherein an algorithm is used for guiding the positioning of ~~[[the]]~~ decór segments and segmentation pattern so that a decór segment from one surface element may continue on an adjoining surface element.
13. (Currently Amended) A process according to claim 1, wherein a ~~[[the]]~~ control program is used together with decór data and selection parameters for applying matching identification on the surface elements.
14. (Currently Amended) A process for forming surface elements having a decór on a surface having desired dimensions, the surface elements comprising a decorative upper surface, a supporting core, and at least one of a tongue and a groove on at least one edge, the process comprising;  
i) selecting a main decor via a terminal, the selected decor emanating from a group consisting of an archetype digitised via digital camera or scanner and a digitised decor from a database;

- ii) entering dimensions of the surface to be covered by surface elements and the desired dimension of the decór into the terminal and using support programs for calculating segmentation of the decór to cover more than one surface element and calculating an intermediate distance, wherein the intermediate distance corresponds to a distance needed to form at least one of the tongue and groove on the surface elements;
- iii) printing the decór on the decorative upper surface; and
- iv) forming at least one of a tongue and a groove on an edge of at least one surface element on the basis of the intermediate distance.

15. (Previously Presented) The process of claim 14, wherein the supporting core comprises at least one selected from the group consisting of particle board, fiber board, and a polymer.

16. (Previously Presented) The process of claim 15, further comprising achieving the polymer supporting core by injection molding or press molding, and optionally providing a filler selected from the group consisting of particles or fibers of organic or inorganic material.

17. (Previously Presented) The process of claim 1, further comprising v) providing the decorative upper surface with a wear layer.

18. (Previously Presented) The process of claim 17, wherein wear layer is provided by a method selected from the group consisting of:

- spray coating,
- roller coating,
- curtain coating,
- immersion coating and

providing one or more sheets of  $\alpha$ -cellulose impregnated with a thermosetting resin or lacquer.

19. (Previously Presented) The process of claim 14, further comprising v) providing the decorative upper surface with a wear layer.

20. (Previously Presented) The process of claim 19, wherein wear layer is provided by a method selected from the group consisting of:

spray coating,

roller coating,

curtain coating,

immersion coating and

providing one or more sheets of  $\alpha$ -cellulose impregnated with a thermosetting resin or lacquer.

21. (Previously Presented) The process of claim 17, further comprising vi) providing the wear layer with abrasion resistant particles.

22-26. CANCELLED

27. (Previously Presented) The process of claim 1, further comprising:

v) providing the decor on the surface elements according to the calculations, and

vi) forming at least a tongue on at least one edge of the surface elements.

28. (Previously Presented) The process of claim 27, wherein said forming is performed along the intermediate distance.

29. (Previously Presented) The process of claim 1, further comprising:

v) providing the decor on the surface elements according to the calculations, and

vi) forming a tongue on one edge of at least surface element, and a groove on a second edge of the at least one surface element, wherein said forming is performed along the intermediate distance.

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31. (Previously Presented) The process of claim 14, further comprising v) providing the surface elements with at least one of a tongue and a groove on at least one side.

32. (Previously Presented) The process of claim 31, wherein step v) is performed before step iii).